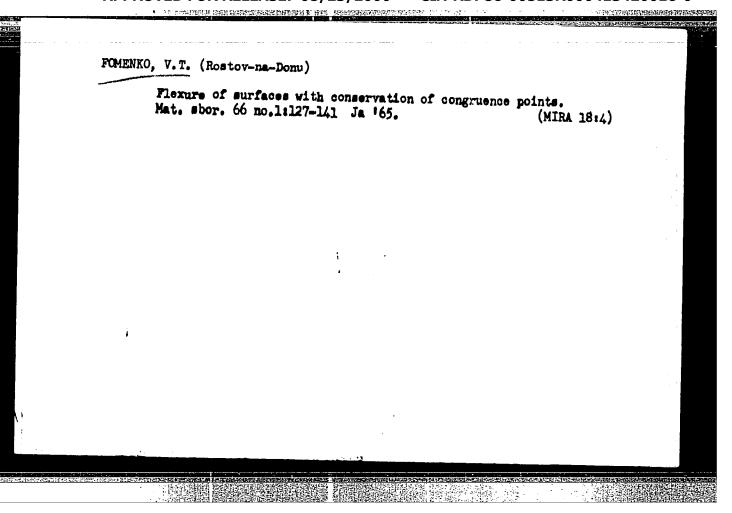
FOMERIKO, V.T.

Infinitesimal deformations of surfaces in the case of sleeve couplings. Dokl. AN SSSR 157 no.4:810-813 Ag '64 (MIRA 17:8)

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1. Rostovskiy-na-Donu gosudarstvennyy universitet. Predstavleno akademikom 1.N. Vekua.



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Initesimal bonding of surfaces with boundaries under certain sounda	
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Ereinskiy matematicheskiy zhurnal, v. 16, no. 5, 1964, 600-704	
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A cond to infinitesimally small bonding of surfaces of positive convenies	
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FOMENKO, V.T. (Rostov-na-Denu)

Infinitesimal inflections of conversurfaces with slide contact.

Mat. sbor. 67 nc.21310-328 Je 165.

(MIRA 18:8)

FOMENKO, V.T.

Infinitesimal flexures of surfaces in the case of sleeve connections. Dokl. AN SSSR 161 no.4:780-782 Ap '65. (MIRA 18:5)

1. Rostovskiy gosudarstvennyy universitet. Submitted November 9, 1964.

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23949-66 EWT(d) IJP(c)		
ACC NR: AP6014959 SOURCE CODE: UR/0039/65/066/001/0	127/0141	
AUTHOR: Fomenko, V. T. (Rostov-na-Donu)	21	1
ORG: none	B	
TITLE: Deformation of surfaces with the preservation of points of congruence		
SOURCE: Matematicheskiy sbornik, v. 66, no. 1, 1965, 127-141		
TOPIC TAGS: surface property, analytic function		
ABSTRACT: A surface is said to be deformed if there exists a family St of surfaces which are isometric to it and which are continuous functions of t. F. [0,1] and which contain this surface for some value of t. Two isometrically equivalent points of surfaces S and St respectively are called congruence points if in the corresponding directions passing through those points the normal curvatures coincide. If the points of the surfaces S and St are points of congruence for any t & [0,1], then the surface S is said to be deformed preserving the points of congruence. Here is proven the deformability of a surface with positive curvature which preserves the congruence of a finite or countable set of points. The proof is based on the investigation of the fundamental equations of surface theory.		
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ACC NR: AP7008904

SOURCE CODE: UR/0199/66/007/004/0939/0953

AUTHOR: Fomenko, V. T.

ORG: none

TITLE: Infinitesimal deformations of convex surfaces with boundary condition of generalized slip

SOURCE: Sibirskiy matematicheskiy zhurnal, v. 7, no. 4, 1966, 939-953

TOPIC TAGS: boundary value problem, mithematics SUB CODE: 12

ABSTRACT: The problem of infinitesimal deformations of surfaces with the boundary condition of generalized slip, subject to certain constraints on surface and vector field $\overline{\ell}$, was previously studied by A. V. POGORELOV and by I. Kh. SABITOV. The following theorem was proved by POGORELOV: If vector field $\overline{\ell}$ at each point M of edge L coincides with the direction of vector OM, general convex surface S° with the boundary condition of generalized slip permits exactly three linearly independent, infinitesimal deformations. SABITOV showed that this theorem remains valid if field $\overline{\ell}$ along L differs little (in the sense of some norm) from vector field $\overline{\ell}$ and surface S° is regular. The present article is devoted to evaluating the limits of variation of vector field

(within which the POGORELOV theorem remains valid, as well as evaluating the distribution density for vector fields of the given class for which the theorem is violated. A boundary value problem is formulated for the investigation of infinitesimal deformations of surfaces with the boundary condition of generalized slip. conditions are given for the solvability of the problem, and

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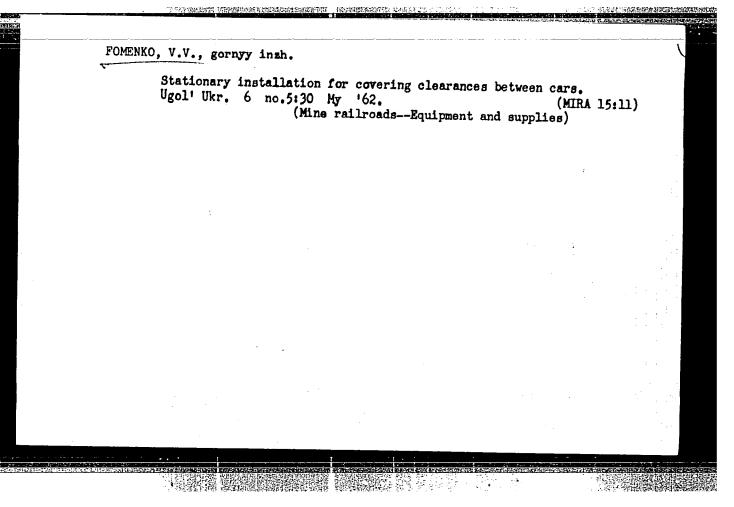
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two theorems 31 formulas.	Are formulated JPRS: 38,417	and proved.	Orig. art.	has: 1 figur	e and	
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GOSHIN, S.A., inzh.; LEBEL', S.M., inzh.; FOMENKO, V.V., tekhn.

Semiautomatic machine for soldering cutter bits. Svar. proizv.
no.6:37-38 Je '61. (MIRA 14:6)

1. Krasnoluchskiy mashinostroitel'nyy zavod.
(Ceal mining machinery--Welding)



FOMENKO, V.Yu.; SHCHERBAKOVA, K.F.; ANISTRAT, N.D.; MISHUROV, Ye.M.

New data on the interrelations between the rocks of the mikkle and upper series in the Krivoy Rog Basin. Dokl.AN SSSR 108 no.3: 535-537 My '56. (MGRA 9:8)

1. Predstavleno akademikom A.G. Betekhtinym. (Krivoy Rog-Rocke)

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AKIMENKO, N.M.; BELEVISEV, Ya.N.; GOROSHNIKOV, B.I.; DUBINKINA, R.P.;
ISHCHENKO, D.I.; KARSHENHAUM, A.P.; KULISHOV, M.P.; LYASHCHENKO,
K.P.; MAKSIMOVICH, V.L.; SKURIDIN, S.A.; SIROSHTAH, R.I.; TOKHTUYEV,
G.V.; FOMENKO, K.P.; SHCHERBAKOVA, K.P.; SEMENOV, M.V., red.izd-va;
AVERKIYNVA, T.A., tekhn.red.

[Geological structure and iron ores of the Krivoy Rog Basin]
Geologicheskoe stroenie i zheleznye rudy Krivorozhskogo basseina.
Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po geologii i okhrane
nedr, 1957. 278 p.

(Krivoi Rog Basin--Geology)

BELEVISHV, Ya.M.; AKIMENKO, M.M.; ZHIIKINS'KIY, S.I.; SHCHERBAKOV, B.D.; TOKHTUYEV, G.V.; SIROSHTAN, P.I.; FOMENKO, V.Yu. Method for studying structures of the Krivoy Rog Masin. Geol. shur. 17 no.2:80-82 '57. (Krivoy Rog Basin -- Geology, Structural)

SHCHERBAKOVA, K.F.; FOMENKO, V.In.

Itabirites from the Krivoy Rog Basin. Zap. Vses. min. ob-va 87 no.1:113-115 '58. (MIRA 11:6)

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SHCHERBAKOV, K.F., inzhener-geolog; FCMENKO, V.Yu., inzh.-geolog

Talc schist from the southern part of the Krivoy Rog Basin. Sbor.
nauch. trud. NIGRI no.2:143-153 '59. (MRA 14:1)

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(Krivoy Rog Basin—Talc)

SHCHERBAKOVA, K.F.; FORMIKO, V.Yu. [Fomenko, V.IU.]

Classification of rocks in the upper strata along the borders of the Il'ich Mine Administration in the Krivoy Rog Basin. Geol. zhur. 19 no.1:86-90 '59. (MIRA 12:2)

(Krivoy Rog Basin--Geology, Stratigraphic)

SHCHERBAKOVA, K.F., inzhener-geolog; FOMENKO, V.Yu., inzhener-geolog

Characteristics of the upper stratum and its division in the limits of the Il'ich Mine in the Krivoy Rog Basin. Sbor. nauch. trud.

NIGRI no.2:154-164 '59. (MIRA 14:1)

(Krivoy Rog Basin-Geology, Stratigraphic)

BELEVISEV, Va.N; KALYAYEV, G.I.; ZAGORUYKO,L.G.; SKURIDIN,S.A.; STRYGIN, A.I.;

FEDIUSHIN, S.Ze.; FOMENKO, V.fu.

Erivoy Rog-Kremenchug metallogenic zone. Geol.rud. mestorozh. no.6:
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1. AN USSR, Geologischeskiy institut, Kiyev.

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BELEVTSEV, Ya.N.; FOMENKO, V.Yu.; NOTAROV, V.D.; MOLYAVKO,G.I.; MEL'NIK, Yu.P.; SIROSHTAN, R.I.; DOVGAN', M.N.; CHERNOVSKIY, M.I.; SHCHERBAKOVA, K.F.; ZAGORUYKO, L.G.; COROSHNIKOV, B.I.; AKIMENKO, N.M.; SEMERGEYEVA, Ye.A.; KUCHER, V.N.; TAKHTUYEV, G.V.; KALYAYEV, G.I.; ZARUBA, V.M.; NAZAROV, P.P.; MAKSIMOVICH, V.L.; STRUYEVA, G.M.; KARSHENBAUM, A.P.; SKARZHINSKAYA, T.A.; CHEREDNICHENKO, A.I.; GERSHOYG, Yu.G.; PITADE, A.A.; RADUTSKAYA, P.D.; ZHILKINSKIY, S.I.; KAZAK, V.M.; KACHAN, V.G.; STRYGIN, A.I., red.; LADIYEVA, V.D., red.; ZHUKOV, G.V., red.; YEPATKO, Yu.M., red.; SHCHERBAKOV, B.D., red.; SLENZAK, O.I., red.izd-va; RAKHLINA, N.P., tekhn. red.

[Geology of Krivoy Rog iron-ore deposits]Geologiia Krivorozhskikh zhelezorudnykh mestorozhdenii. Kiev, Izd-vo Akad. nauk USSR. Vol.1.[General problems in the geology of the Krivoy Rog Basin. Geology and iron ores of the deposits of the "Ingulets," Rakhmanovo, and Il'ich Mines]Obshchie voprosy geologii Krivbassa. Geologicheskoe stroenie i zheleznye rudy mestorozhdenii rudnikov "Ingulets," Rakhmanovskogo i im. Il'icha. 1962. 479 p.

(Krivoy Rog Basin-Mining geology) (MIRA 16:3)

BELEVTSEV, Ya.N.; FOMENKO, V.Yu.; NOTAROV, V.D.; MOLYAVKO, G.I.;

MEL'NIK, Yu.P.; SIROSHTAN, R.I.; DOVGAN', M.N.; CHERNOVSKIY,

M.I.; SHCHERBAKOVA, K.F.; ZAGORUYKO, L.G.; GOROSHNIKOV, B.I.;

AKIMENKO, N.M.; SEMERGEYEVA, Ye.A.; KUCHER, V.N.; TAKHTUYEV, Q.V.;

KALYAYEV, G.I.; ZARUBA, V.M.; NAZAROV, P.P.; MAKSIMOVICH, V.L.;

STRUYEVA, G.M.; KARSHENBAUM, A.P.; SKARZHINSKAYA, T.A.;

CHEREDNICHENKO, A.I.; GERSHOYG, Yu.G.; PITADE, A.A.; RADUTSKAYA,

P.D.; ZHILKINSKIY, S.I.; KAZAK, V.M.; KACHAN, V.G.; POLOVKO, N.I.,

red.; LADIYEVA, V.D., red.; ZHUKOV, G.V., red.; YEPATKO, Yu.M.,

red.; SLENZAK,O.I., red. izd-va; KULICHENKO, V.G., red.;

RAKHLINA, N.P., tekhn. red.; MATVEYCHUK, A.A., tekhn. red.

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[Geology of the Krivoy Rog iron ore deposits] Geologiia Krivorozhskikh zhelezorudnykh mestorozhdenii. Kiev, Izd-vo Akad. nauk
USSR. Vol.1.[General problems of the geology of the Krivoy Rog
Basin. Geology and iron ores of the "Ingulets," Rakhmanovskiy,
and Il'ich ore deposits] Obshchie voprosy geologii Krivbassa.
Geologicheskoe stroenie i zheleznye rudy mestorozhdenii rudnikov
"Ingulets," Rakhmanovskogo i im. Il'icha. 1962. 479 p. Vol.2.[Geology and iron ores of the Dzerzhinskiy, Kirov, Liebknecht, October
Revolution, "Bol'shevik, " Frunze, 22d Parts'ezd, Red Guard, and
Lenin deposits]Geologicheskoe stroenie i zheleznye rudy mestorozhdenii
im. Derzhinskogo, im.Kirova, im.K.Linkenkhta, im.XX parts"ezda, im.
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BLELVTSEV, Ya.N.; ZAGORUYKO, L.G.; KALYAYEV, G.I.; MOLYAVKO, G.I.; SKURIDIN, S.A.; STRYGIN, A.I.; FEDYUSHIN, S.Ye.; FOMENKO, V.Yu.

Metallogenetic features of the Ukranian iron-ore province. Zakonom. razm. polezn. iskop. 5:82-109 '62. (MIRA 15:12)

1. Institut geologicheskikh nauk AN Ukrainskoy SSR. (Ukraine-- Ore deposits)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413420016-0"

BELEVTSEV, Ya.N.; BEYGULENKO, I.L.; BETIN, D.I.; BORISENKO, V.G.; GUBKINA, N.N.; DZHEDZALOV, A.T.; ZHILKINSKIY, S.I., prof.; ZALATA, L.F.; KAZAK, V.M.; MALYUTIN, Ye.I.; MUROMTSEVA, Z.G.; NATAROV, V.D., doktor geol.-miner. nauk: PANASENKO, V.N.; PITADE, A.A.; RADUTSKAYA, P.D.; SLEKTOR, S.M.; SMIRNOV, D.I.: TOKHTUYEV, G.V., kand. geol.-min. nauk; FOMENKO, V.Yu.; SLENZAK, O.I., red.izd-va; MATVEYCHUK, A.A., tekhn. red.

[Methodological guide for the geological service for the prospecting and mining of Krivoy Rog type deposits] Metodicheskoe rukovodstvo dlia razvedochnoi i rudnichnoi geologicheskoi sluzhby mestorozhdenii krivorozhskogo tipa. Pod red. IA.N. Belevtseva. Kiev, Izd-vo AN USSR, 1963. 395 p.

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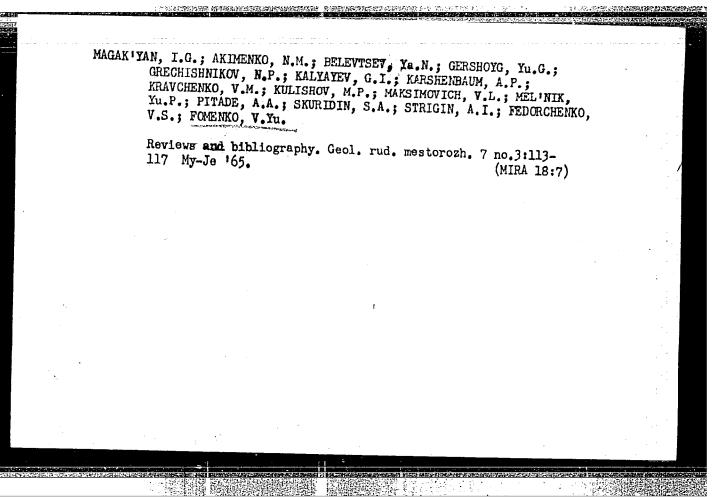
1. Krivoy Rog. Gornorudnyy institut. 2. Chlen-korrespondent
AN Ukr.SSR (for Belevtsev).

(Krivoy Rog Basin-Engineering geology)

AYZEN/ERG, D.Ye.; BELEVTSEV, Ya.N.; BORDUNOV, I.N.; BORISENKO, S.T.; BULKIN, G.A.; GORLITSKIY, B.A.; DOVGAN, M.N.; ZAGORÚYKO, L.G.; KAZAKOV, L.R.; KALYAYEV, G.I.; KARASIK, M.A.; KACHAN, V.G.; KISELEV, A.S.; LAGUTIN, P.K.; LAZARENKO, Ye.K.; LAZARENKO, E.A.; LAPITSKIY, E.M.; LAPCHIK, F.Ye.; LAS'KOV, V.A.; LEVENSHTEYN, M.L.; MALAKHOVSKIY, V.F.; MITKEYEV, M.V.; PRUSS, A.K.; SKARZHIMSKIY, V.I.; SKURIDIN, S.A.; SOLOV'YEV, F.I.; STRYGIN, A.I.; SUSHCHUK, Ye.G.; TEPLITSKAYA, N.V.; FEDYÚSHIN, S.Ye.; FOMENKO, V.Yu.; SHKOLA, T.N.; SHTERNOV, A.G.; YAROSHCHUK, M.A.; ZAVIRYUKHINA, V.N., red.

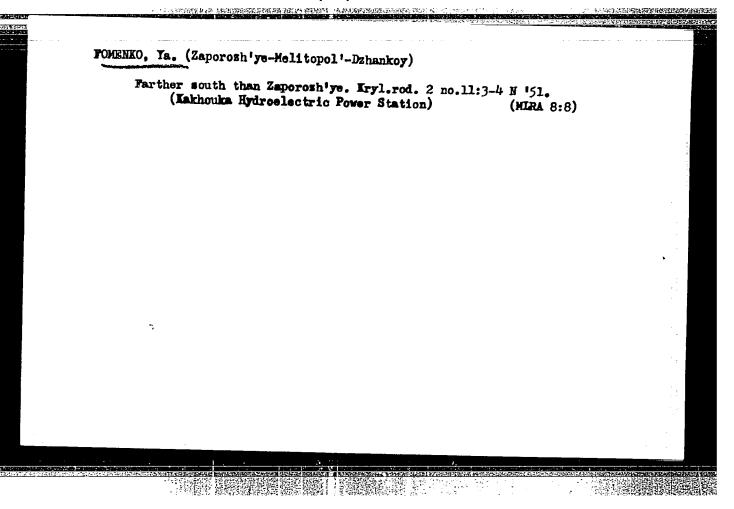
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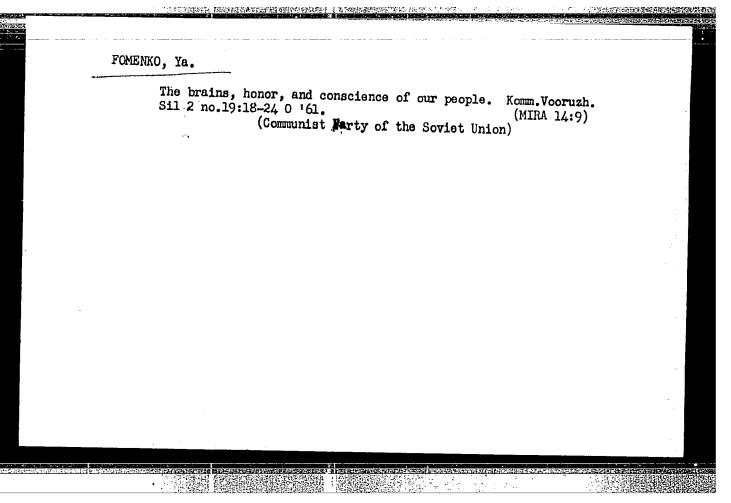
> 1. Akademiya neuk URSR, Kiev. Instytut geologichnykh nauk.

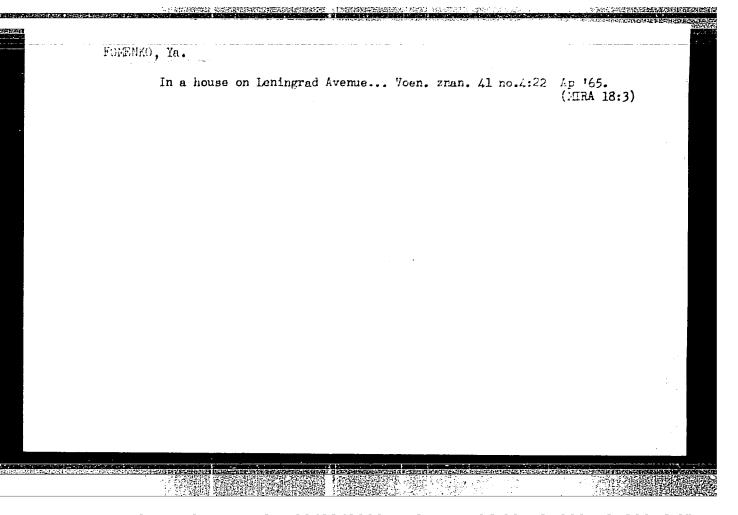


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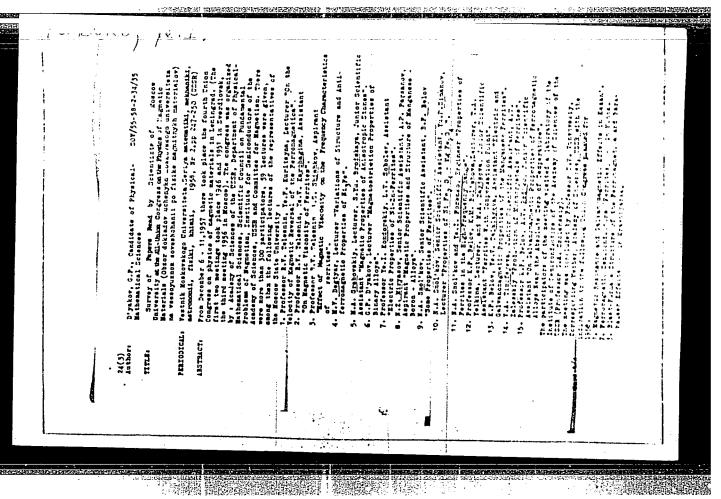


FOMENKO, Ya.A.

Methodology of calculating water yield to rivers of the Dnieper Basin during years of high floods. Trudy UkrNIGMI no.51:12-20 165.

(MIRA 18:9)

OT STEN KRENIYA / FROM THE WALLS OF
THE KREMLIN (ON JOURNING MOSKVA,
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241 P. ILLUS., PORTS.



24(3) S0V/48-23-3-18/34

AUTHORS: Smol'kov, N. A., Fomenko, Ye. I.

TITLE: Some Properties of Ferrites at Super High Frequencies (Nekotoryye

svoystva ferritov na sverkhvysokikh chastotakh)

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959,

Vol 23, Nr 3, pp 377-379 (USSR)

ABSTRACT: As Polder (Ref 1) has theoretically shown, a high-frequency

plane-polarized electromagnetic oscillation is decomposed into two waves when passing through a magnetized ferromagnetic: one wave is left handed circularly polarized and one right-handed. The velocities of propagation in both waves are different. For this reason the resulting plane-polarized wave which emerges from the ferromagnetic shows a rotation of the polarization plane by φ (compared to the incident wave) - i.e. a Faraday effect may be observed which is similar to the optical one. Roberts (Ref 2) and Hogan (Ref 3) proved this experimentally with ferrites. Six diagrams are discussed. In the first diagram the rotation of the polarization plane in dependence of the external magnetic field H in a cylindrical magnesium-manganese-ferrite sample (Mg_{0.75}Mn_{0.25}Fe₂O₄)

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Some Properties of Ferrites at Amer High Frequencies

at a frequency of 9350 Megacycles is shown. In the second diagram the same is demonstrated for magnesium-nickel-manganese-ferrite. In the diagram 3a the damping of the polarized wave is shown in dependence of the external magnetic field (? has a sharp maximum), and in 3b the dependence of the ellipticity on the external magnetic field is shown; d shows a minimum at the same place where ? has its maximum. The fourth diagram shows the dependence of the rotation of the polarization plane on the external magnetic field H for 6 different magnesium-manganese-ferrites. In the fifth diagram the angle of rotation of the polarization plane is shown for three different temperatures as a function of the mixing proportion between MnFe₂O₄ and MgFe₂O₄ at a field strength of H = 460 Oe. There are 5 figures

 ${\rm MgFe_2O_4}$ at a field strength of H = 460 Oe. There are 5 figures and 9 references, 3 of which are Soviet.

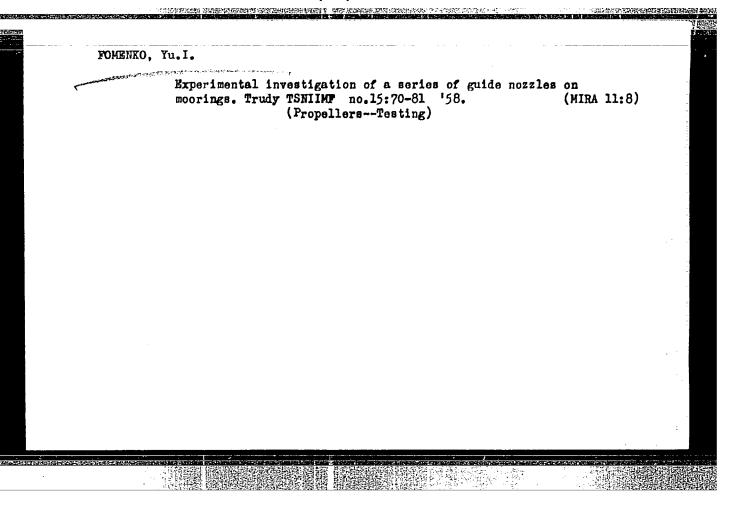
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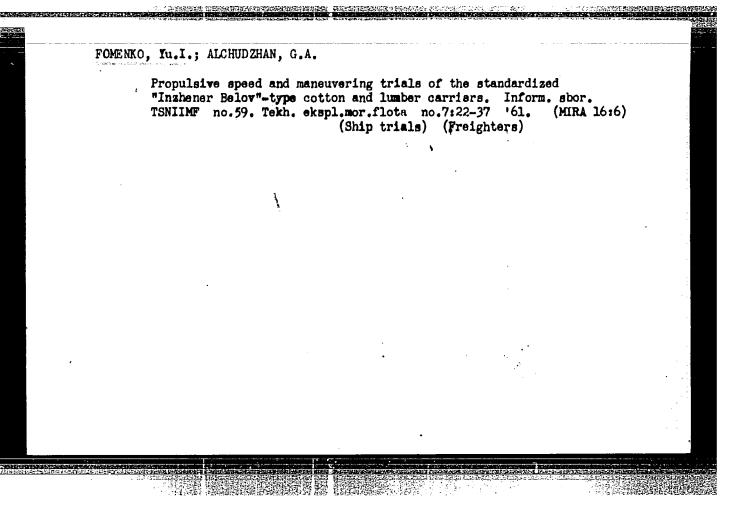
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AUTHOR: Bog (Leningrad)	omolov. V. N. (L. Fomenko, Ye. P	eningrad); Gerayzade. . (Leningrad)		i e de la companya de la Salamana 🦠	J
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TOPIC TAGS	galvanomagnetic	oscillator			
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L 5371-66 EWT(1)/EPA(s)-2 SOURCE CODE: UR/0292/65/000/009/0018/0019 ACC NR: AP5024577 AUTHOR: Berger, A. Ya. (Prof.); Vodyako, I. M. (Engr.); Fedorov, V. F. (Engr.); Fomenko, Yu. A. (Engr.); Oranskiy, M. I. (Candidate of technical sciences) ORG: none TITLE: Induction motors with protective enclosures SOURCE: Elektrotekhnika, no. 9, 1965, 18-19 TOPIC TAGS: induction motor 1,44,55 ABSTRACT: The induction motors whose stator winding -- and sometimes also the rotor -- are protected against corrosive medium by a nonmagnetic-material enclosure are considered. Simple formulas based on an equivalent circuit are offered which allow for the variation of motor characteristics due to the presence of the enclosure. Three induction motors (A51-4, A52-4, and A-42-2) equipped with 1Kh16N9T stainlesssteel enclosures of different thicknesses and lengths were tested at 50 cps; also one of the motors was tested with a copper enclosure. These conclusions are reported: (1) The losses in the special-enclosure motors are higher and their specific power is lower than those of conventional motors; (2) Protective enclosures having UDC: 621.313.333.2

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YEVREINOV, I.V., kand.tekhn.nauk, rukovoditel' raboty; ALFEROVA, N.V., kand.tekhn.nauk; GOL'DENFON, A.K., kand.tekhn.nauk; ZINCHENKO, V.I., kand.tekhn.nauk; KORCHAGIN, M.I., kand.tekhn.nauk; PANOV, V.A., kand.tekhn.nauk; URBANOVICH,'A.K., kand.tekhn.nauk; FOMENKO, Yu.I., kand.tekhn.nauk; YAKOVSKIY, F.V., kand.tekhn.nauk; LISIN, V.N., inzh.; LYUTOV, I.L., inzh.; NEYELOV, A.N., inzh.; STRUMPE, P.I., kand.tekhn.nauk, otv.red.; DRANITSYN, S.N., kand.tekhn.nauk, zam.otv.red.; GOROBETS, V.A., kand.voyen.-morskikh nauk, réd.; MAKSIMADZHI, A.I., kand.tekhn.nauk, red.; ROZHDESTVENSKIY, N.A., kand.tekhn.nauk, red.; SYROMYATNIKOV, V.F., kand.tekhn.nauk, red.; LEBEDEVA, N.S., red.; STUL'CHIKOVA, N.P., tekhn.red.

[Methods of testing the thermodynamic efficiency of marine diesel engine power plants] Metodika teplotekhnicheskikh ispytanii dizel'nykh sudovykh ustanovok. Leningrad, 1962. 165 p. (Leningrad. TSentral'nyi nauchno-issledovatel'skii institut morskogo flota. Informatsionnyi sbornik, no.83/84. Tekhnicheskaia ekspluatatsiia, no.18/19). (MIRA 16:10)

1. Nachal'nik otdela tekhnicheskoy ekspluatatsii sudovykh silovykh ustanovok TSentral'nogo nauchno-issledovatel'skogo instituta morskogo flota (for Yevreinov). 2. TSentral'nyy nauchno-issledovatel'skiy institut morskogo flota Alferova, Gol'denfon, Zinchenko, Korchagin, Panov, Urbanovich, Fomenko, Yakovskiy, Lisin, Lyutov, Neyelov).

Propulsi Inform. 162.	ve and manoeurvering tri sbor. TSNIIMF no.75 Tekh	als of the motorship "Kirghin" ekspl. mor. flota no.14:20	zistan." 1-33 M 16:3)
	(Ship trials)	(Ship propulsion)	,
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FOMENKO, Yu.I.; ALCHUDZHAN, G.A. Propulsive and manoeuvring trials of the passenger actorship "Grigorii Ordzhonikidze." Inform. sbor. TSNIIMF no.75: Tekh. ekspl. mor. flota no.14:3-19 162. (MIRA 16:3) (Ship trials) (Ship propulsion)

MINOR. Paranta V. T	(0			7,	/
JATHOR: Fomenko, Yu. I.	(Candidate of	technical scien	ces)	B-	t/
ORG: None					
CITLE: Calculating the clesigning a nozzle-propel	learance betwe ler system	en the end of t	ne blade and	the nozzle vall	in
SOURCE: Leningrad. Tsent	ral'nyy nauchr	o-issledovatel	skiy institut	morskogo flota	
Frudy, no. 49, 1963. Gidr	omekhanika sud	na (Hydromechan	ics of ships)	, 102-114	
COPIC TAGS: propeller bl			:	26	
ABSTRACT: The author point on the basis of systematic	c tests of mod	els over the us	e of the vorte	ex theory and pr	ro-
poses a method for design sign curves plotted from 1958-1959 by the order of	systematic tes	t series of noz	zle and prope:	ller models made	in
leet in an experimental	tank. The pro	posed method do	es not require	knowledge of t	he
ortex theory and the descimple calculations accou	igner may plan	a nozzle-prope:	ller system ra	apidly and with	
ance between the end of the plotted in $K_g - \lambda_g$ and	he blade and t	he nozzle wall.	The hydrody	namic design cu	ves
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diamet peller by the posed show t	ers and system a nozzle method that the	optimum and the is disc to desig correct nge in t	rpm are hull is ussed. In of a nation for the theorem	e indicat conside An examp lozzle-pr clearance retical v	ted on tered, and the is groupeller to be two velocity	he curv d the a iven il system en the of the	s. Pointes. Into dditional lustrating for a sreblade and ship and	eraction suctions applate appl	n betwe on forc ication nker. nozzle e desig	en the person of the The resuces	ro- ted pro- ilts a con-	
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"APPROVED FOR RELEASE: 08/23/2000

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EWP(k)/EWT(m)/T-2/EWP(w)/EWP(v)IJF(c) SOURCE CODE: UR/2754/66/000/072/0060/0070 ACC NR: AT6025574 Fomenko, Yu. I. (Candidate of technical sciences) ORG: None 米 TITLE: Effect which the shape of the screw vortex system has on the hydrodynamic characteristics of the "screw propeller-guide nozzle" complex ملاه SOURCE: Leningrad. Tsentral nyy nauchno-issledovatel skiy institut morskogo flota. Trudy, no. 72, 1966. Gldromekhanika sudna (Hydromechanics of ships), 60-70 TOPIC TAGS: hydrodynamics, fluid mechanics, vortex flow, propeller blade, marine engineering ARSTRACT: The author generalizes Lavrent'yev's screw-nozzle theory (Lavrent'yev, V.M., "Design of Marine Screw Propellers", Leningrad, izd-vo "Morskoy transport", 1949) to the case of nonuniform loading along the disc of the screw. The problem reduces to Fredholm's linear integral equation of the first kind which is derived from the condition of a constant stream function on the contour of the nozzle. This integral equation is solved for the cases where the semi-infinite vortex cylinder substituted for the screw has a constant diameter equal to that of the screw and where this cylinder has a diameter greater than that of the screw. The counterflow and nozzleinduced velocities are theoretically calculated by the proposed method for a specific nozzle. The results show completely satisfactory agreement with experimental data Card 1/2 UDC: 629.12:532.582.5.001.5

las.	with r	tics and dis	ny shap	e. Ori	g. art. h	sed for fi luced velo mas: 10 f	cities in igures, 3	designing tables, 9	screw formu-
SUB CODE:	13/	SUBM DATE:	None/	ORIG R	EF: 004	•			
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PAVIOV, I.M.; SUVOROV, I.K.; FOMENO, Yu.Is.

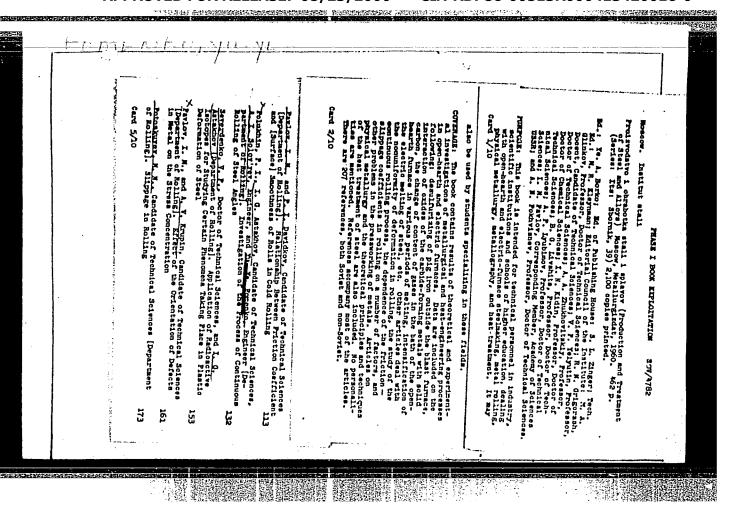
Improved cylindrical torsiometer with a cut-in strip. Izv.

vys.ucheb.Nav.; chern.met. no.5:72-75 '60.

(MIRA 13:6)

1. Moskovskiy institut stali.

(Torsion) (Masuring instruments)



S/148/60/000/007/005/015 A161/A029

AUTHORS: Osadchiy, V.Ya.; Fomenko, Yu.Ye.; Yeriklintsev, V.V.; Baykov, V.P.

TITLE: Metal Pressure on the Piercing Mill Rolls

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, 1960, Nr 7, pp 103-110

TEXT: An experimental investigation at Nikopol'skiy Yuzhnotrubnyy zavod (Nikopol' Tube Works) is described. The purpose was to study the dynamics of the process, which is important for full utilization of the power and mechanical strength of rolling mills as well as for establishing an optimum rolling process technology. The "400" installation of the plant used for experiments consists of two continuous heating furnaces; two piercing mills (with 960-860 mm diameter rolls and 2,350 kw motor); one reheating furnace before the spreading mill; an automatic spreading mill; two rolling-over mills; one sizing mill, and a cooler with a straightening machine. Both piercing mills are operating only when rolling largediameter and thin-walled tubes to otherwise the piercing mill Nr 2 operates alone. It produces billets in a single piercing. Metal pressure on the

Card 1/3

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S/148/60/000/007/005/015
Metal Pressure on the Piercing Mill Rolls
A161/A029

piercing mill rolls was measured with dynamometers placed between the screwdowns and the work roll bolster (Figure 1), in especially prepared casings (Figure 2). Pressure oscillograms are shown (Figure 3) and "decoded" (in Table 1). No sufficiently accurate theoretical or experimental data are yet available on the dependance of specific metal pressure on the basic piercing process parameters, and data obtained by experience are usually being employed in calculations of the piercing mill parts and technology. In the described investigation, mean pressure was determined by dividing the experimentally determined full metal pressure on the rolls by the contact area between the metal and the rolls: $p = \frac{P}{r} kg/mm^2.$

A.I. Tselikov's method /Ref 3/ was used for determining the contact area, taking into account the ovality of the billet. The mean specific pressures are given in a table (Table 2). It was stated that for alloy steel the mean specific pressure is 10-14 kg/mm, and for carbon steel it reaches 7.5-12 kg/mm, which matches the data obtained in other investigations /Refs 1, 4 and 5/. The following conclusions were drawn: 1) In the two piercing mills studied the pressure was 33-92 ton, which is not high for this type of mills. In rolling

Card 2/3

Metal Pressure on the Piercing Mill Rolls

S/148/60/000/007/005/015 A161/A029

stainless and alloy steel the pressure is higher than in rolling carbon steel, provided that axial slip has no dominating effect as is the case in rolling 168x8 mm tubes of X 5B\$\overline{\text{Kh5VF}}\$ and 168x10 mm tubes of X 5 (Kh5) steel tubes. When rolling tubes of equal diameter but different wall thickness, the pressure curve has a maximum. 2) The pressure on the inlet side screwdown is higher than on the outlet side screwdown: by 2-3 times in the piercing mill Nr 1, and 2-4 times in the Nr 2. Load on the outlet side bearings being much lower, their rated life time may be increased 2-1 times. 3) Only slip (lag) of metal was observed in the deformation zone, lead was absent. The axial slip coefficient was between 0.48 and 0.90. There are 8 figures and 5 Soviet references.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: June 24, 1959

Card 3/3

POLUKHIN, P.I., koktor tekhn.nauk; ASTAKHOV, I.G., kand.tekhn.nauk; SOLOV'YEV, A.I., inzh.; FOMENKO, Yu.Ye., inzh.

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Investigating the continuous rolling process of angle steel. Sbor.Inst.stali no.39:132-152 60. (MIRA 13:7)

1. Kafedra prokatki Moskovskogo ordena Trudovogo Krasnogo Anameni instituta stali im. I.V. Stalina.
(Rolling(Metalwork))

S/148/60/000/009/013/025 A161/A030

AUTHORS: Pavlov, I.M., Suvorov, I.K., and Fomenko, Yu.Ye.

TITLE: An investigation of scale on free-cutting steel and its

effect on friction in rolling

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya,

no. 9, 1960, 95-101

TEXT: Free-cutting steel causes difficulties in rolling, i.e. the grip of the rollers is not firm, the rollers slip on metal, the metal cracks and tears. Same difficulties are experienced with this steel abroad. The steel per GOST 1414-54 standard contains 0.08-0.30% S, up to 0.15% P and 0.45% C. Sulphur content sometimes reaches 0.5%. The causes of the trouble in rolling have not yet been investigated and no data on the matter exist in works on the melting, deoxidation and teeming of free-cutting steel (Ref.1-4). The described investigation has been carried out in rolling in a "750" billet mill, with free-cutting "A12" and "A12A" and structural steel for comparison. Scale was collected from under the rolls in the mill

Card 1/63

S/148/60/000/009/013/025 A161/A030

An investigation of scale ...

and from ingots. The temperature of scale softening was determined in an installation of Kafedra metallurgii chuguna MIS (The Chair of Iron Metallurgy of MIS) used for testing the softening of ore and sinter (Fig. 1). The softening point of the furnace scale was found at 1050°C. The softening point changed in rolling: 1000°C after the second pass; 950° after the third; 850° after the fifth and the seventh; 900° after the ninth. It drops from 1050° in the first pass to 850°, and rises again after the seventh. The content of C in the scale varied from 0.01 to 0.02%; of Mn from 0.6 to 0.7%; Si from 0.15 to 0.96%. The S content varied drastically: furnace scale contained 0.032-0.039% S, this content was maintained in the first and second pass, but in the third pass it rose to 0.15% and reached 0.39% in the fifth, then dropped to 0.15% in the seventh pass and to 0.10% after the ninth. Sulphur content in structural "20" steel scale was considerably lower. Curves of the sulphur content variation are shown (Fig. 5). The curve of the roller grip (Fig. 1) clearly shows the influence of the sulphur content in the scale - gripping becomes difficult with a higher sulphur content. The sulphur distribution in the metal was investigated by Baumann sulphur prints and by chemical analysis taken from different

Card 2/6

An investigation of scale ...

S/148/60/000/009/013/025 A161/A030

portions of ingots and from rolled strip. It varied only insignificantly. Conclusions: 1) A difficult grip is characteristic of free-cutting steel compared with other steel grades. 2) The chemical composition of the scale changes in the rolling process, particularly the sulphur content. 3) The softening point of the scale collected in the rolling process is in the range 850-1050°C, and the softening point is lower with a higher sulphur content. 4) Increased sulphur content in the scale makes the gripping difficult. 5) The segregation of sulphur is insignificant in rolled steel and in ingots. 6) Sulphur segregation is not clearly expressed in steel with a high sulphur content; the sulphur content difference is low on a different level and across in the ingots. 7) The sulphur distribution is more even in free-cutting steel deoxidized with aluminum, and the size of sulphurous inclusions is smaller. 8) The sulphur distribution improves in rolled metal during the rolling process. This is more clearly expressed in "A12A" steel deoxidized with aluminum. There are 5 figures, 3 tables and 5 Sovietbloc references.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: 26 Janua

26 January 1960

Card 3/5

S/148/60/000/011/006/015 A161/A030

AUTHORS: Pavlov, I. M.; Suvorov, I. K., Fomenko, Yu. Ye.

TITLE: Investigation of free-cutting steel alloyed with titanium

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, nc. 11, 1960, 61 - 65

TEXT: As had been stated in a previous investigation (Ref. 1, same authors, Izv. vyssh. uch. zav. Chern. Metallurgiya, 1960, No. 7, 9) the cause of the difficult grip in rolling "A12" steel is the high sulfur content in scale. It lowers the softening point of scale, turning it into a lubricant. Besides, this steel contains low-celting Fe-FeS eutectic which can also decrease friction and this drastically decreases the plasticity of steel at the rolling temperature and the strip ends thus become rugged. Data of a work on systems Fe-Ti-S and Fe-Ti-C-S (Ref. 5, Fishel, V. Ru., D. Ellis. The desulfurating effects of titanium in steel, "Stal!", 1953, No. 2) lead to the conclusion that the addition of titanium may improve the workability of hot steel, but there are no data in literature that would indicate the effect of titanium on the rolls grip on sulfurous steel,

Card 1/3

Investigation of free-cutting steel alloyed A161/A030 S/148/60/000/011/006/015

as well as the machinability and mechanical properties. Experiments have been carried out to this end at the electrometallurgical laboratory of the Moscow Steel Institute. The most even distribution in sulfides has been found in ingots alloyed with 0.19 % Ti. The machinability was tested by the standard "Two-cutters method" consisting in cutting with two cutters on a lathe (in this instance one cutter was carbide tipped and the other made of free-cutting steel), with electric wires welded to the cutters and connected to a galvanometer; the e.m.f. appearing in the ciruit due to different thermoelectric properties of the cutters is proportional to the heat forming in the metal being machined, and the higher the resistance to cutting is, the higher the current in the circuit. "A12" steel with 0.19 % Ti had the same machinability as the common steel without Ti, but the machinability was perceptibly worse when the Ti content was over 0.2 %. The friction factor in "A12" steel with 0.2 % Ti was considerably higher than in normal "A12" steel and even higher than in rolling the CT.3 (St.3) steel. Conclusion: Sulfurous "A12" steel with titanium has a high machinability, high friction factor in rolling and will cause no gripping diffi-

Card 2/3

Investigation of free-cutting steel alloyed ... A161/A030

culty; the effect of titanium addition on plasticity at high temperature is positive. There are 5 figures, 5 Soviet references and : non-Soviet,

ASSOCIATION: Moskovskiy institut stall (Moscow Steel Institute)

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SUBMITTED: May 14, 1960

Card 3/3

FOMENKO, Yu. Ye. Cand Tech Soi -- "Study of the rolling process of A-12 automatic steel in connection with conditions friction." Mos, 1961 (Acad Sci USSR.

Inst of Metallurgy im A. A. Baykov). (KL, 4-61, 201)

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SUVOROV, I. K., kand. tekhn. nauk; FOMENKO, Yu. Ye., kand. tekhn. nauk; KUDRYAVTSEV, A. S., inzh.; PAPCHENKO, V. I., inzh.

Investigating the coefficient of the position resultant during het rolling in cylindrical rolls. Sbor. Inst. stali i splay. no.40:130-137 162. (MIRA 16:1)

(Rolling (Metalwork))

POLUKHIN, P. I., prof., dektor tekhn. nauk; MASTEROV, V. A., inzh.;
FOMENKO, Yu. Ye., kand. tekhn. nauk

Cemplex investigation of contact pressure and friction forces
during relling. Sher. Inst. stali i splav. no.40:166-172
(MIRA 16:1)

(Relling(Metalwerk))
(Fressure-Measurement)
(Friotion-Measurement)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413420016-0"

FOMENKO, Yuriy Yevgen'yevich; FAYNSHTEYN, Vladimir Maksovich;
POZIN, Mikhail Solomonovich; LANOVSKAYA, M.R., red.izd-va;
ISLENT'YEVA, P.G., tekhn. red.

[Operator of guillotine shears] Rezchik gil'otinnykh nozhnits. Moskva, Metallurgizdat, 1963. 157 p. (MIRA 16:9) (Shears (Machine tools))

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413420016-0"

DMITRIYEV, V.D.; SHEVAKIN, Yu.F.; FOMENKO, Yu.Ye.

1. Moskovskiy institut stali i splavov.

ZOLOTAREVA, A.I.; FOMENKO, Z.F.

Clays of the western provinces of the Ukraine as a raw material for preparing drilling muds. Trudy UkrNIGRI no.5:326-337 163.

Selecting clays for well drilling in the eastern part of the Ukraine. Ibid.:338-344 (MIRA 18:3)

FOMENKO, Z.F.; ZOLOTAREVA, A.I.; SENTSYUK, V.P.

Alcohol oils as an antifoaming-reagent for clay muds.

Neft. 1 gaz. prom. no.2:32-33 Ap-Je '64. (MIRA 17:9)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413420016-0"

FOMENKO, Z.F.; ZOLOTARFVA, A.I.; SENTSYUK, V.P.

Field testing of carbolineum, a new antifoemer. Neft. 1 gaz.
prom. 3:33-34 JL-S '65.

(MIRA 18:11)

ZOLOTAREVA, A.I.; FOMENKO, Z.F.; SHCHERBAKOVA, A.F.

Composition of water soluble salts in rocks of the Dolina oil field and its effect on the parameters of clay muds. Trudy UkrNIGRI no.7:126-130 *63.

(MIRA 19:1)

ENT(E)/ENA(d)/EMP(+)/T/EMP(+)/EMP(h)/EMP(b) ASD(f)-3/ l 19839-65 ASD(m)-3/AFHDC HJW/JD/HH/HW 870148/64/000/011/010)/0104 ACCESSION NR: AP4049063 AUTHOR: Dmitriyev, V. D.; Shevakin, Yu. F.; Fomenko, Yu. Ye. TITLE: Peculiarities in the rolling of are-welded pipes of stainless steel on KhPT milling machines. SOURCE: IVUZ. Chernaya metallurgiya, no. 11, 1964, 100-104 TOPIC TAGS: stainless steel, stainless steel pipe, stainless steel rolling are welded pipe, page seek steel rolling mill, stainless steel structure, steel Khisnion KhPT rolling mill Microscopic analyses and comparisons with Scheffler's diagrams have shown the sulface near the welded joints of pipes made of Khilly NOT steel are due structure and that the cracks do not assess when he has store been a 3-5% then the counts are not cleaned before weight at tions causes reduction in both pipe diameter and wall 1991 and 33 and 25 mm were quenched from 10000 and same confined them were marostructural analysis. Cracks appearing at the way and the surface $6\,$ mm, when the reduction in diameter reached 45% , and we residue to the is on at that spot and the differing properties of the metal at the seam. Though applic analysis showed that quenching brought the sean, nearer uniformity with the erc 1/2

L 19839-65 ACCESSION NR: AP4049063 other sections, milling led to the new appearance of oracks at the seams. This was corrected by choosing the correct angle of setting on the milling machine, since the reduction in diameter of the pipe is increased by an increase in getting engle. The calibration of the machine was deformined by Yi. F. Shevaldn's functional method. Thus, the difference between forward and reverse strokes was minimized, and the welded pipes had mechanical and technological characteristics approaching those of scamless pipes. (Fig. art. has: photomicrographs, 2 drawings, and 1 table. ASSOCIATION: Moskovskiy institut stalf i splavov (Moscow Institute of Steel and Alloys) SUBMITTED: 21Feb64 ENGL: 00 SUB CODE: MM NO REF SOV: 006 OTHER: 003

FONENKOV, A. I.	
"The Depth Guage Indicator Produced by the Kraenyy Instrumental shchik Plant" Stanki i Instrument, 10, No. 6, 1939.	
Report U-1505, 4 Oct 1951.	1
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FOMMIKOV, A. I.

"A Device for Demagnetizing Measuring Tools," Stanki i Instrument, 10, Nos. 10-11, 1939.

Report U-1505, 4 Oct 1951.

FOMENKOV, A. F. (Grad Stud)

Dissertation: "The Power and Dynamics of the Threshing Drum of the 'MKS-1100' Thresher When Its Productive Capapeity Is Increased." Cand Tech Sci, Moscow Inst for the Mechanization and Electrification of Agriculture imeni V. M. Molotov, 18 Jun 54. (Vechernyaya Moskva, Moscow, 9 Jun 54)

SO: SUM 318, 23 Dec 1954

FOMENKOV, A.P., kandidat tekhnicheskikh nauk.

Methods of determining the mement of inertia of agricultural machines in operation. Sel'thezmashima no.3:13 Mr '56.

(MERA 9:7)

1. Chelyabinskiy institut mekhanizatsii i elektrifikutsii sel'skegekhesyaystva.

(Mements of inertia) (Agricultural machinery)

NAZAROV, G.I., doktor tekhn. nauk; OLEYNIK, N.P.; FOMENKOV, A.P.;
YUROVSKIY, I.M.; SOLODENIKOVA, G.A., red.

[Principles of electric drives and use of electrical energy in agriculture] Osnovy elektroprivoda primenenie elektricheskoi onergii v sel'ekom khoztaista. [by] G.I.
Nazarov i dr. Moskva, Kolos, 1965. 391 p.

(MIRA 18:7)

1. Chlen-korrespondent Vsesoyuznoy and tenti sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Nazarov).

Structural characteristics of phlogopite deposits of the Kuranakh group in southern Yakutia and method of prospecting for phlogo-

pite bodies. Izv.vys.ucheb.zav.; geol.i razv. 1 no.9:82-91 S '58. (MIRA 12:9)

1. Moskovskiy geologorazvedochnyy institut im. S.Ordzhonikidze, Kafedra metodiki poiskov i razvedki mestorozhdeniy poleznykh iskopayemykh.

(Kuranakh Valley--Phlogopite)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413420016-0"

FOMENKOV, B. P., Candidate Geolog-Mineralog Sci (diss) -- "The geological structure of the Kuranakh group of deposits and the principles of prospecting for concealed phlogopite-bearing bodies (souther Yakutia)". Moscow, 1959. 16 pp (Min Higher Educ USSR, Moscow Geological-Prospecting Inst im S. Ordzhonikidze), 120 copies (KL, No 24, 1959, 131)

FOMENKOV, B.P. Structural types of phlogopite deposits and their evaluation. Izv.vys.ucheb.zav.;geol. i reav. 4 no.8:52-59 Ag '61. (MIRA 14:9) 1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze. (Yakutia—Philogopite)

FOMENKOV, B.P. Methodology of prospecting for phlogopite deposits. Razved. i okh. nedr 27 no.9:10-13 S '61. (MIRA 17:2) 1. Moskovskiy geologorazvedochnyy institut.

FOMENKOV, B.P.; KORCHAGIN, A.M.

Concerning the regularities of the distribution of the vermiculite zones in the Inagli massif (southern Yakutia). Izv. vys. ucheb. zav.; geol i razv. 7 no.10;61-66 0 '64. (MIRA 18:7)

1. Moskovskiy geologorasvedochnyy institut im. S.Ordshonikidse.

FOMENKOV.N.

We should continuously improve mining techniques. Mast.ugl.4 no.8:5 Ag'55. (MIRA 8:10)

1. Brigadir prokhodchikov shakhty no.1 imeni Chelyuskintsev Stalinskoy oblasti (Donets Basin--Coal mines and mining)

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	FOULL, E H; Haumov, Borls Hikolayevich, Meyerov, H. V. Vsyphin, Mc I;	
-	Telegraphy and an analysis of the second sec	
	"Study of the Frequency Regulation Process in the System Moscow-Kuibyshev," Scientific Report of the Inst of Automation and Telemechanics, USSR Acad of Sciences, 1952.	
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"Investigation of the Velocity Regulation Process in the System Hoscow-Kuibyshev, with Special Reference to the Phenomenon of the Retardation In the Kuibyshev Hydroturbine," Scientific Report of the Inst. of Automation and Telemachanics, USSR Acad. of Sciences, 1952.

FOMICH, M.F.

Outbreak of murine typhus salmonellosis. Zhur. mikrobiol. epid.
i immun 28 no.2:134 F '57 (MIRA 10:4)

1. Iz laboratorii sanitarno-epidemilogicheskoy stantsii Stalinska.
(SAIMONELLA) (TYPHUS FEVER)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413420016-0"

Centralized maintenance and repair of automobiles in Simferopol'.

Avt. transp. 37 no.7:16-19 Jl '59. (MINA 12:10)

1.Glavnyy inzhener Krymskege avtotresta (for Fomichenke).

2.Nachal'nik etdela Ukrdortransnii (for Kisalev).

(Simferopol'--Motortrucks---Maintenance and repair)

FOMICHENKO, I., prof., general-mayor v otstavke; STAVITSKIY, I., polkovnik, kand.istoricheskikh nauk

"The CPSU is the leader and educator of the Red Army,1918-1920" by IU.P.Petrov. Reviewed by I.Fomiohenko, I.Stavitskii. Komm. (MIRA 15:3) Vooruzh.sil 2 no.7:88-93 Ap '62. (MIRA 15:3)

(Russia-Revolution,1917-1921)(Petrov, IU.P.)

POMICHENKO, K.P.

Features of carbbohydrate metabolism and energy exchange in the brain following stimulation of the gastric receptors. Trudy Inst.fisiol.AN BSSR 3:140-154 59. (MIRA 13:7)

1. Laboratoriya biokhimii Instituta fiziologii AN BSSR. (METABOLISM) (STOMACH--INSERVATION)

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AUTHOR	: Fomichenko, K. V.; Lis'ko, N. A.	19 17	To a company
TITLE:	Proteinogram of blood serum after chronic X irradiation	B	-
SOURCE	: AN BSSR. Doklady, v. 9, no. 3, 1965, 199-201		
ADCTO	TAGS: blood serum, protein electrophoresis, protein, X may, react: Paper electrophoresis was used to determine the effects of	f chronic (on	Q e
ABSTRA month)	ACT: Paper electrophoresis was used to determine the effects of fractional X irradiation (760 r) on the protein constituents a irradiation considerably altered the electrophoretic protein reducing the relative content of the albumins and elevating the leta gisbulin level decrease in altermina and resident for more than 90 days. The decrease in altermina and resident for more than 90 days. The decrease in all of the state of the st	f chronic (on in rat serum pattern, mai strong the pand strong the pand strong the serum a slopuling the serum the	e n- ma
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	Effect of mechanical stimulation of gastric receptors on metabolism. Trudy Inst. fiziol. AN BSSR 1:88-98 '56 (MLRA 10:5)	:
,	1. Laboratoriya biokhimii. (STOMACHINNERVATION) (METABOLISM)	
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FOMICHENKO,

USSR/Human and Animal Physiology. Digostion.

Abs Jour: Ref Zhur-Biol., No 8, 1958, 36546.

: Cherkasova, L.S., Kukushkina, V.A., Mironova, T.M. Author

Reinberger, V.G., Fomichenko, K.V.

: Institute of Physiology BSSR. - Lab of Brach em. Inst

: The Effect of Mechanial Stimulation of Gastric Receptors on Metabolic Processes Under Conditions Title

of Exclusion of Certain Areas of the Brain Cortex.

Orig Pub: Tr. In-taFiziol. AN BSSR 1956, 1, 180-193.

Abstract: The fasting glucose blood level (G) in dogs increased following removal of the premotor area of the cortex of the left hemisphere. Distension of the stomach prior to the operation lowered the fasting G level during the first 15 min and raised it somewhat after 30-45 minutes; following the operation, this produced

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Abs Jour: Ref Zhur-Biol., No 8, 1958, 36546.

only a slight docrease of the level in the first 5 min. The alimentary hyperglycomia following feeding persisted much longer in the operated than in the non-operated dogs, and gastric distonsion also prevented the appearance of the maximum raise of glycemia. The removal of the motor area of the cortex of both hemispheres in rats produced storage of glycogen in the liver and a marked increase in muscle tissue content of creatin-phosphoric acid and preorganic P; the content in the brain tissue of creatinphosphoric quotient of the muscle tissue remained of the same intensity. The reaction to mechanical stimulation of the receptors of the stomach in operated rats and rabbits remained the same as in knon-operated animals.

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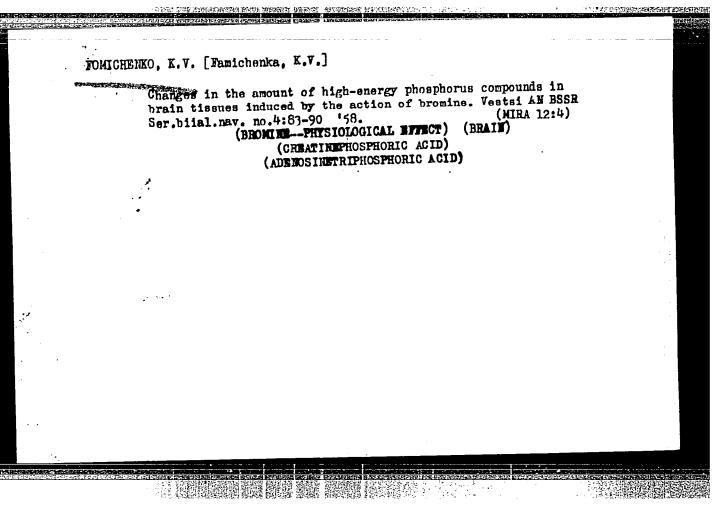
APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413420016-0"

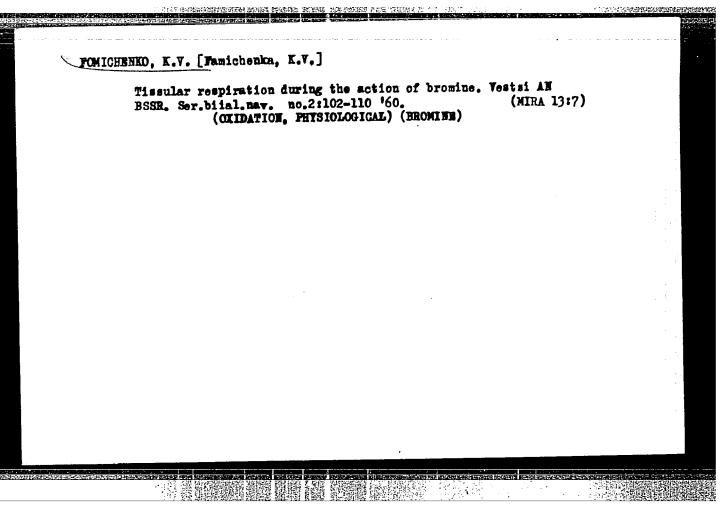
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1. Institut fiziologii An BSSR. Predstavleno akademikom AN BSSR T.N.Godnevym.

(BROMINE—PHYSIOLOGICAL EFFECT)

(PHOSPHORUS METABOLISM)